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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/575,348	05/19/2000	Shoichi Ando	12052.33US01	1005	
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MERCHANT & GOULD PC 3200 IDS CENTER 80 SOUTH EIGHTH STREET			EXAMI	EXAMINER	
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MINNEAPOLI	IS, MN 55402-0903		ART UNIT	PAPER NUMBER	
		•	1742		
			DATE MAILED: 08/29/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applica	tion No.	Applicant(s)	De
•	09/575,	348	ANDO ET AL.	
Office Action Summary	Examin	ər	Art Unit	
	Sikyin I		1742	
The MAILING DATE of this comm Period for Reply	unication appears on t	he cover sheet	with the correspondence a	ddress
A SHORTENED STATUTORY PERIOD	DEOR REPLY IS SET	TO EXPIRE 3	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMU - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this cool of the period for reply specified above is less than thire. If NO period for reply is specified above, the maximum Failure to reply within the set or extended period for Any reply received by the Office later than three monte earned patent term adjustment. See 37 CFR 1.704(b) Status	JNICATION. ions of 37 CFR 1.136(a). In no e ommunication. ty (30) days, a reply within the st n statutory period will apply and eply will, by statute, cause the a hs after the mailing date of this o	event, however, may atutory minimum of ti will expire SIX (6) Mi oplication to become	a reply be timely filed hirty (30) days will be considered tim DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	ety. communication
1) Responsive to communication(s) filed on <u>4/7/03;6/11/0</u>	<u>3</u> .		
2a)⊠ This action is FINAL .	2b) ☐ This action	is non-final.		
3) Since this application is in condiction closed in accordance with the present the present of the present				the merits is
Disposition of Claims				
4)⊠ Claim(s) <u>1,2,30 and 31</u> is/are pe				
4a) Of the above claim(s)i	s/are withdrawn from c	onsideration.		
5) Claim(s) is/are allowed.				
6) Claim(s) 1,2,30,31 is/are rejected				
7) Claim(s) is/are objected to				
8) Claim(s) are subject to res Application Papers	and/or election	requirement.		
9) The specification is objected to by	the Examiner.			
10) The drawing(s) filed on is/a		objected to by	the Examiner.	
Applicant may not request that any).
11) The proposed drawing correction				
If approved, corrected drawings are			•	
12) The oath or declaration is objected	d to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a cla	aim for foreign priority (under 35 U.S.C	c. § 119(a)-(d) or (f).	
a) All b) Some * c) None o	of:			
1. Certified copies of the prior	rity documents have be	en received.		
2. Certified copies of the prior	rity documents have be	en received in	Application No	
 3. Copies of the certified copi application from the Int * See the attached detailed Office at 	ernational Bureau (PC	T Rule 17.2(a)).	ıl Stage
14) Acknowledgment is made of a clair	m for domestic priority	under 35 U.S.0	C. § 119(e) (to a provision	al application).
 a) The translation of the foreign 15) Acknowledgment is made of a clai 				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review 3) Information Disclosure Statement(s) (PTO-144)			w Summary (PTO-413) Paper N of Informal Patent Application (P	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-2 and 30-31 are rejected under 35 U.S.C. 103(a) as obvious over JP 07034190 or USP 4375378 to Ohtani et al.
- 4. The cited reference(s) disclose(s) the features including the claimed cold forging steel composition and microstructures. The features relied upon described above can be found in the reference(s) at: JP 07034190 (abstract, Example section [0034]- Table 3, samples No. 6 and 19) and Ohtani (col. 1, lines 51-64; col. 2, lines 55-61; and Tables 2 and 4). The difference between the reference(s) and the claims are as follows: the cited references do not disclose the carbide aspect ratio and/or forging upsetting ratio. But, the claimed properties are material properties which

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would have been inherently possessed by the material. With respect to the upsetting rate that cited references examples show 85% (Tables 2 and 4 of Ohtani) and (87.8% in Table 3 of JP '190). When the 87.8 is rounded off, it is 90%. Furthermore, wire is plastically deformed from billet and wire would have more cumulated reductions than billet. It is well settled that a prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979). To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d at 1343-44, 166 USPQ at 409.

Response to Arguments

- 5. Applicant's arguments filed April 7, 2003 and June 11, 2003 have been fully considered but they are not persuasive.
- 6. In the response filed June 11, 2003, applicants stated that a declaration will be filed. But, a new declaration has not been found on record.

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- 7. Applicants argue that none of the cited references discloses billet has spheroidized carbide structure with upsetting ratio 90% or more. But, the references of record show the steels have the compositions overlapped the instant steel composition. And the limiting compression rate in the example is 87.8% which is rounded to 90%. A prima facie case of obviousness would exist where the claimed ranges and prior art do not overlap but are close enough that one ordinary skilled in the art would have expected them to have the same properties, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, In re Hoch, 428 F.2d 1341, 166 USPQ 406 (CCPA 1970), and In re Payne 606 F.2d 303, 203 USPQ 245 (CCPA 1979). To overcome the prima facie case, an applicant must show that there are substantial, actual differences between the properties of the claimed compound and the prior art compound. Hoch, 428 F.2d at 1343-44, 166 USPQ at 409.
- 8. Applicants argue that the declaration filed May 28, 2002 has shown the claimed carbide aspect ratio is critical for the upsetting ratio of 90% or greater. The examiner reiterates the response as set forth in Advisory Action, Paper 11.

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory

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action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (703)-308-1146.

The facsimile phone numbers are (703) 872-9310 (non-final Official Paper only), (703) 872-9311 (after-final Official Paper only), and (703) 305-7719 (Unofficial Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO

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that are not for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. Ip August 25, 2003